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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,807	08/04/2004	Gerhard Schoonderbeek	68.0452	4806

35204 7590 09/26/2006

SCHLUMBERGER RESERVOIR COMPLETIONS
14910 AIRLINE ROAD
ROSHARON, TX 77583

EXAMINER

THOMPSON, KENNETH L

ART UNIT PAPER NUMBER

3672

DATE MAILED: 09/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/710,807	Applicant(s) SCHOONDERBEEK ET AL.	
	Examiner Kenneth Thompson	Art Unit 3672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11/8/04</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities:

On page 1, the recitation "Description" should be deleted and the brackets should be removed from the title of the invention.

The abstract of the disclosure is objected to because additional information such as the title of the invention should not appear on the abstract page. Correction is required. See MPEP § 608.01(b).

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-14, 16, 18, 21, 23-25 and 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Breukelman, U.S. 2,897,897.

Regarding claims 1, 2, 4-12, 16, 21, 23 and 28, Breukelman discloses perforated zone including an injection conduit (15,20; col. 2, lines 47-53) having apertures (25), graduated apertures (21; col. 3, lines 13-16), one-way valves (31) in apertures (21) flush with the outer circumference, wherein the valve limits flow into the conduit (col. 3, lines

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20-26) and limits outward flow from the conduit (col. 4, lines 19-28) to a lesser degree than inward flow.

As to claims 13 and 29, Breukelman discloses cup packers (16,17) limiting wellbore cross-flow.

As to claims 14, 18, 24, 25 and 30, Breukelman discloses in figure 3 the apertures (21) having an increasing diameter along the length of the conduit which creates a larger space between the smaller diameter apertures near the top portion than the space between the larger diameter apertures at the lower portion and limits fluid pressure surge.

Claims 1, 3, 16 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Patton et al., U.S. 4,258,788.

Patton discloses in figures 1 and 12 a conduit (4) isolating formation intervals with packers (7), apertures (11), a one-way valve (32), a base pipe (9) and screen (38) covering the aperture.

Claim 15 is rejected under 35 U.S.C. 102(b) as being anticipated by Schroeder, Jr. et al., U.S. 5,127,474.

Schroeder, Jr. et al. discloses a housing (52) within a radial port (at 38) in a well conduit (22) and a valve member (48).

Claims 16, 17 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Bryan, U.S. 2,2147,305.

Bryan discloses a conduit (2) having a valve (51) therein, radial apertures (25) and a valve (26; 27) allowing flow from the exterior to the interior and blocking outward flow.

Claims 26 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Gray, U.S. 2,602,516.

Gray discloses a production conduit (36) apertures (at 14) radially spaced from the conduit longitudinal axis, a check ball valve (17) and seat (14) allowing flow from the exterior to the interior and restricting flow from the interior to the exterior and a gland screen (15) covering the aperture.

Conclusion

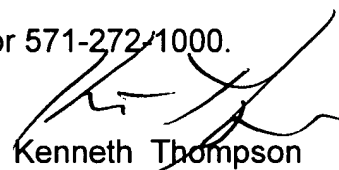
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

15 September 2006



Kenneth Thompson
Primary Examiner
Art Unit 3672